Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

CW#10: Graphs of Quadratic Functions

Geometry

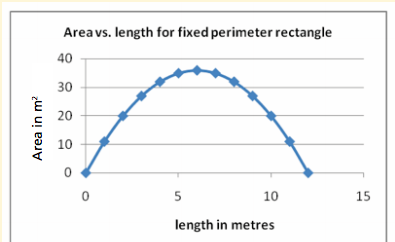
September 21ST, 2015

**Practice:**

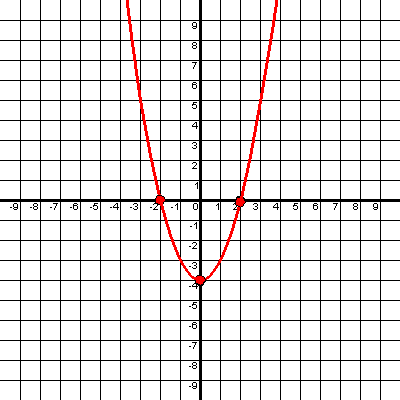
|  |
| --- |
| Expectations:   * Working silently and independently at your desk. * Being efficient: using all the time given to complete the practice to the best of your ability. |

y = - x2 – 3

1. Will this function have a highest point or lowest point? Why do you think that?
2. Create a graph for this function. *Use graph paper.*
3. What important points can you see in this graph? List as many as you can find.

3. Use the graph to the right to answer the following questions.

1. Identify where the graph would “fold.” Label it as the axis of symmetry.
2. Does this graph have a maximum or minimum point? What it is? Label it on the graph as the vertex.
3. Identify where the graph crosses the x-axis. Label it on the graph.
4. Identify as many important points on the graph as you can.

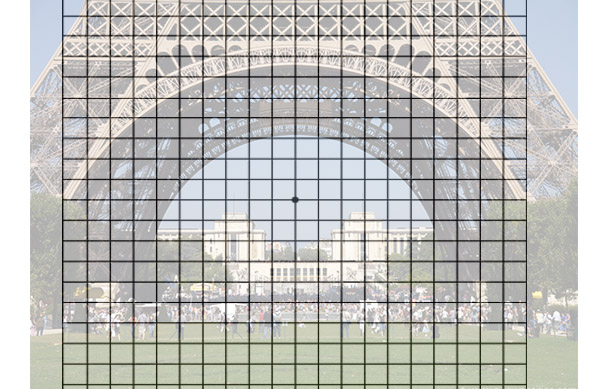
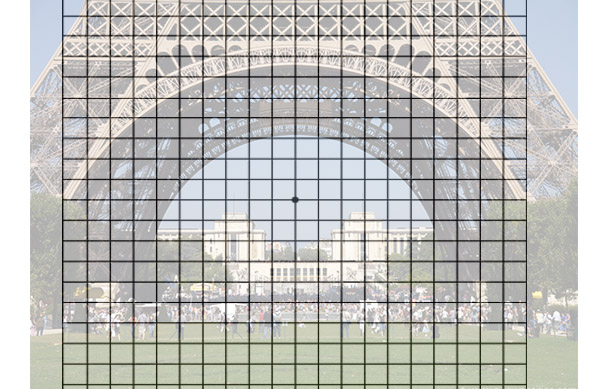


5. Use the graph to the right to answer the following questions.

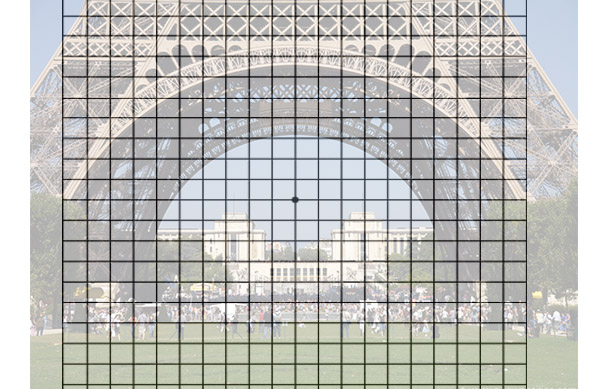
1. At what point will the graph fold?
2. Does this graph have a high point or a low point? How do you know?
3. At what point(s) does the graph cross the y-axis?
4. At what point(s) does the graph cross the x-axis?

1. What important points do you see on the graph? Identify as many as you can.

6. Use the image to the right to answer the following questions.

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1. Identify where the graph would “fold.” Label it as the axis of symmetry.

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1. Does this graph have a maximum or minimum point? What it is? Label it on the graph as the vertex.
2. Identify where the graph crosses the x-axis. Label it on the graph.
3. Identify as many important points on the graph as you can.